

In the Claims

Claims 1 – 67 (Cancelled)

Sub B' 112-234
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68. (New) A process for manufacturing an FRP structural material comprising:

providing a plurality of plate-shaped core materials, each of which has a curved surface portion having a small radius of curvature on at least a part of the core material;

forming a stacked body of core materials having said curved surface portion on at least a part of the body by stacking a plurality of said core materials in the thickness direction of the body to a target thickness so that said curved surface portions of said core materials overlap each other;

disposing a reinforcing fiber substrate on at least one surface of said stacked body of core materials along said curved surface portion of said stacked body of core materials; and

impregnating a matrix resin into said reinforcing fiber substrate.

69. (New) The process for manufacturing an FRP structural material according to claim 68, wherein said core material is a foaming material having a thickness of 20 mm or less per one material and a specific gravity of 0.02 to 0.2.

70. (New) The process for manufacturing an FRP structural material according to claim 68 or 69, wherein said core materials are stacked so that their surfaces come into direct contact with each other.

71. (New) The process for manufacturing an FRP structural material according to claim 68 or 69, wherein said reinforcing fiber substrate is interposed into at least a part of a portion between stacked core materials.

72. (New) The process for manufacturing an FRP structural material according to claim 68 or 69, wherein a groove is defined on a surface of a core material in contact with the reinforcing fiber substrate, and resin is distributed along said groove.

73. (New) The process for manufacturing an FRP structural material according to claim 68 or 69, wherein a net material is disposed between the core material and the reinforcing fiber substrate, and a resin is distributed along said net material.

74. (New) The process for manufacturing an FRP structural material according to claim 68 or 69, wherein, after said reinforcing fiber substrate is disposed on the surface of said stacked body of core materials along said curved surface portion of said stacked body of core materials, the whole thereof is covered with a bag substrate, the inside covered with said bag substrate is evacuated, and a matrix resin is injected to impregnate the resin into the reinforcing fiber substrate.

75. (New) The process for manufacturing an FRP structural material according to claim 68, wherein, when a portion of the reinforcing fiber substrate not impregnated with the resin is present on a surface of the body, the resin non-impregnated portion and its vicinity is entirely covered with a bag substrate, the area covered with said bag substrate is evacuated, and a resin is injected into the area to impregnate the resin into the resin non-impregnated portion of said reinforcing fiber substrate.

76. (New) The process for manufacturing an FRP structural material according to claim 75, wherein the whole of said resin non-impregnated portion is covered with said bag substrate after a resin distribution medium is disposed on said resin non-impregnated portion.

77. (New) The process for manufacturing an FRP structural material according to claim 76, wherein a resin permeable mold separation material is interposed between said resin distribution medium and said reinforcing fiber substrate with said resin non-impregnated portion.